

Application No.: 10/759,978
Filed: January 15, 2004

Amendments to Claims

1. (Currently amended) A capacitor module for a pulse forming network which would include a plurality of such modules disposed about a central network axis in combination with a coupling module, which capacitor module comprises:

a capacitor unit oriented in a radial direction with respect to a central axis of the network, the capacitor unit having an outer end wall, an inner end wall and flat side surfaces that extend between the outer and the inner end walls;

wherein the outer end walls and inner end walls are aligned substantially normal to the radial direction, with the outer end wall being wider than the inner end wall and with the flat side surfaces being non-parallel and tapering radially inward so that the capacitor unit is wedge-shaped and tapers inward from the outer end wall to the inner end wall, and

which coupling module is also oriented in the radial direction and has radially outer and inner end walls and side surfaces: the radially outer end wall of the coupling module being interconnected with the inner end wall of the capacitor unit,

the radially outer end wall of the coupling module being wider than its inner end wall so that the coupling module also tapers inward.

2. Canceled

3. (Currently amended) The capacitor module of claim 2 1 wherein a plurality of physically similar capacitor units are independently interconnected to the coupling module and are independently removable therefrom in a radially outward direction.

4. (Currently amended) A space frame in combination with the capacitor module of claim 2 1, which frame comprises:

means for supporting the coupling module in a location where the coupling module is oriented in a radial direction to the axis of the network and where the coupling module

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is connected to a pulse forming network bus, from which frame the coupling module can be removed in a radially outward direction.

5. (Previously presented) The space frame and capacitor module of claim 4 wherein the capacitor module supported therein contains a plurality of capacitor units which connect to the coupling module in a manner so that each capacitor unit may be radially removed from the coupling module while the coupling module remains supported in said space frame.

6. (Previously presented) The space frame and capacitor module of claim 5 wherein each of said capacitor units has flat upper and lower surfaces.

7. (Previously presented) The space frame and capacitor module of claim 6 wherein centering pins which are radially aligned are carried on said flat side surfaces of said capacitor units and wherein said space frame contains receptacles that receive said pins to align and support said units.

8. (Currently amended) A pulse-forming capacitor network for disposition in a limited spatial environment which comprises:

a plurality of capacitor modules arranged in an annular array about a central network axis;

a space frame for supporting the capacitor modules in locations at different vertical levels where each capacitor module is oriented in a radial direction to the axis of the annular array; and

a plurality of pulse forming network buses for electrically connecting said capacitor modules;

each said capacitor module comprising at least one wedge-shaped capacitor unit and a wedge-shaped coupling module, both being oriented in said radial direction,

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each said capacitor unit having an outer end wall and an inner end wall and having flat side surfaces that extend between the outer and the inner end walls, with the outer end wall and inner end wall being aligned substantially normal to the radial direction and with the outer end wall being wider than the inner end wall so that the capacitor unit tapers inward from the outer end wall to the inner end wall, and

said coupling module being connected to one of said buses and being removable from said frame in a radially outward direction and also being oriented in the radial direction and having radially outer and inner end walls and side surfaces; the radially outer end wall of the coupling module being interconnected with the inner end wall of the capacitor unit, and

the radially outer end wall of the coupling module being wider than its inner end wall so that the coupling module also tapers inward.

9. Canceled.

10. (Currently amended) The pulse-forming network of claim 9 8 wherein a plurality of physically similar capacitor units are independently interconnected to one said coupling module and are independently removable therefrom in a radially outward direction.

11. (Currently amended) The pulse-forming network of claim 9 8 wherein each capacitor module contains a plurality of vertically stacked capacitor units, which units are connected to the coupling module in a manner so that each capacitor unit may be radially removed from the coupling module while the coupling module remains supported in said space frame.

12. (Original) The pulse-forming network module of claim 11 wherein each of said capacitor units has substantially flat upper, lower and side surfaces.

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13. (Previously presented) The pulse-forming network of claim 11 wherein radially aligned centering pins are carried on said side surfaces of said capacitor units and wherein said space frame contains receptacles that receive said pins to align and independently support said units.

14. (Previously presented) A pulse-forming capacitor network installation disposed in a confined spatial space, which installation comprises:

- a bulkhead which defines a cylindrical space within an interior wall surface thereof;
- a rotatable circular platform at the bottom of said cylindrical space;
- a plurality of capacitor modules arranged in an annular array;
- a space frame affixed to said circular platform for supporting the capacitor modules in locations at different vertical levels where each module is oriented in a radial direction to the axis of the annular array about which said platform rotates;
- a plurality of pulse forming network buses for electrically connecting said capacitor modules carried by said space frame;
- each said capacitor module comprising at least one capacitor unit and a coupling module, both being oriented in said radial direction;
- each said capacitor unit having an outer end wall and an inner end wall and having side surfaces that extend between the outer and the inner end wall, with the outer end walls and inner end wall being aligned substantially normal to the radial direction and with the outer end wall being wider than the inner end wall so that the capacitor unit tapers inward from the outer end wall to the inner end wall;
- said coupling module being connected to one of said buses and being removable from said frame in a radially outward direction; and
- said bulkhead having a vertically extending service entrance, whereby rotation of said circular platform rotates said annular array of capacitor modules so that any capacitor unit

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can be removed and serviced by annularly aligning it said capacitor unit with said service opening.

15. (Original) The pulse-forming network of claim 14 wherein said coupling module has radially outer and inner end walls with the radially outer end wall of the coupling module being wider than the inner end wall and having side surfaces that taper inward; and wherein the radially outer end wall of the coupling module is interconnected with the wider inner end wall of the capacitor unit.

16. (Original) The pulse-forming network of claim 15 wherein a plurality of physically similar capacitor units are independently interconnected to one said coupling module and are independently removable therefrom in a radially outward direction when said array is rotated to align said unit with said service opening.

17. (Previously presented) The pulse-forming network of claim 15 wherein each capacitor module contains a plurality of vertically stacked capacitor units, which units are each connected to the coupling module in a manner so that each capacitor unit may be radially removed from the coupling module while the coupling module remains supported in said space frame.

18. (Original) The pulse-forming network module of claim 17 wherein each of said capacitor units has substantially flat upper, lower and side surfaces.

19. (Previously presented) The pulse-forming network of claim 17 wherein radially aligned centering pins are carried on said side surfaces of said capacitor units and wherein said space frame contains receptacles that receive said pins to align and independently support said units.